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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/534,469	11/16/2005	Shlomo Margel	4110-40	7014
	7590` 01/25/2008 NDFRHYF PC	EXAMINER		
NIXON & VANDERHYE, PC 901 NORTH GLEBE ROAD, 11TH FLOOR			DAVIS, RUTH A	
ARLINGTON, VA 22203			ART UNIT	PAPER NUMBER
			1651	
			MAIL DATE	DELIVERY MODE
			01/25/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)	
Office Action Summary		10/534,469	MARGEL ET AL.	
		Examiner	Art Unit	
		Ruth A. Davis	1651	
Period 1	The MAILING DATE of this communication app or Reply	pears on the cover sheet v	with the correspondence address	
- Extraction - Extraction - If N - If N - Fail Any	HORTENED STATUTORY PERIOD FOR REPLICHED IN CHEVER IS LONGER, FROM THE MAILING DISCUSSION OF THE MAILING DISCUSSION OF THE MAILING DISCUSSION OF THE MAINTENAMENT OF TH	36(a). In no event, however, may a will apply and will expire SIX (6) MO	NTHS from the mailing date of this communication	
Status			, many many routing any	
1)🛛	Responsive to communication(s) filed on 29 Oc	ctoher 2007		
2a)		action is non-final.		
3)	Since this application is in condition for allowar	100 except for formal mat	tore muses and	
	closed in accordance with the practice under E	x parte Quavle 1935 С г	ters, prosecution as to the merits is	
Disposit	ion of Claims	- Paris adayis, 1905 C.E	7. 11, 400 O.G. 213.	
4) 🛛	Claim(s) 1-28 is/are pending in the application.			
	4a) Of the above claim(s) <u>10-14 and 20-28</u> is/ar	'A withdrawn from a a - :-!		
5)	Claim(s) is/are allowed.	e withdrawn from conside	eration.	
6) 🖂	Claim(s) <u>1-9 and 15-19</u> is/are rejected.			
7)	Claim(s) is/are objected to.			
8) 🗔	Claim(s) are subject to restriction and/or	-1		
		election requirement.		
pplicati	on Papers			
9) 🔲 -	The specification is objected to by the Examiner	•		
10) 🔲 🗀	The drawing(s) filed on is/are: a) acce	pted or b) objected to t	hy the Evaminer	
	Applicant may not request that any objection to the d	rawing(s) he held in abevan	900 S OFD 1 05(-)	
	Replacement drawing sheet(s) including the correction	on is required if the drawing	(a) is shipsted to 0 = 27 CED () = 27 CED	
11) 🔲 🛚	he oath or declaration is objected to by the Exa	miner. Note the attached	S) is objected to. See 37 CFR 1.121(d).	
	nder 35 U.S.C. § 119	or. Note the attached	Office Action or form P10-152.	
	•			
3/E	Acknowledgment is made of a claim for foreign p	riority under 35 U.S.C. §	119(a)-(d) or (f).	
•	, —		•	
		have been received.		
	2. Certified copies of the priority documents	have been received in Ap	oplication No	
`	3. Copies of the certified copies of the priority	y documents have been r	received in this National Stage	
	application from the International Bureau ((PCT Rule 17.2(a)).		
^ Se	ee the attached detailed Office action for a list of	the certified copies not re	eceived.	
achment(s	3)		•	
Notice	of References Cited (PTO-892)	A) 🖂 Intended C	(DTO 446)	
Notice	of Draftsperson's Patent Drawing Review (PTO-948)	interview Su Paper No(s)،	ımmary (PTO-413) /Mail Date	
🔼 Informa	ation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date 5/05;11/05.	5) L Notice of Info	ormal Patent Application	
	emark Office	6)	<u>-</u> •	

1) 2) 3) 10/534,469 Art Unit: 1651

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of group I, claims 1-9 and 15-19 in the reply filed on October 29, 2007 is acknowledged.

Claims 1-28 are pending, claims 10-14 and 20-28 are withdrawn from consideration; claims 1-9 and 15-19 have been considered on the merits.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-2, 5-9 and 15 are rejected under 35 U.S.C. 102(e) as being anticipated by Marx et al. (US 6552172).

Marx teaches fibrin (organic protein) nanoparticles coupled (or covalently bonded) to agents wherein the agents may be thrombin (col.2, 7) or other pharmaceuticals (col.7).

The reference anticipates the claimed subject matter.

Application/Control Number:

10/534,469

Art Unit: 1651

Page 3

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 6. Claims 1 9 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hallahan et al. (US 2003/0219785).

Hallahan teaches a delivery vehicle comprising an active agent and a paramagnetic material, wherein the agent may be thrombin (0013,0018) and the paramagnetic material may be a nanoparticle (0027-0030) made from iron oxide (0137). The nanoparticle may include a linker (or spacer arm) (0027-0031,0144) made from albumin (0148) and additionally pharmaceuticals may also be included.

10/534,469

Art Unit: 1651

The reference does not specifically teach the composition wherein the components are covalently bound as claimed, however such bonds were common when the instant components are combined together. Thus, at the time of the claimed invention, it would have been well within the purview of one of ordinary skill in the art to make the claimed nanoparticle with a reasonable expectation for successfully obtaining an effective therapeutic nanoparticle composition.

7. Claims 1 – 9 and 15 – 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hallahan in view of Lanza et al. (US 7220401) and Marx.

Hallahan teaches a delivery vehicle comprising an active agent and a paramagnetic material, wherein the agent may be thrombin (0013,0018) and the paramagnetic material may be a nanoparticle (0027-0030) made from iron oxide (0137). The nanoparticle may include a linker (or spacer arm) (0027-0031,0144) made from albumin (0148) and additionally pharmaceuticals may also be included.

Hallahan reference does not specifically teach the composition wherein the components are covalently bound as claimed, however such bonds were common when the instant components are combined together. Thus, at the time of the claimed invention, it would have been well within the purview of one of ordinary skill in the art to make the claimed nanoparticle with a reasonable expectation for successfully obtaining an effective therapeutic nanoparticle composition.

Hallahan does not teach the compositions wherein the therapeutic composition is a powder with a gelatin dispersant, liquid, or with other additives. However, at the time of the

10/534,469

Art Unit: 1651

claimed invention, it would have been obvious to one of ordinary skill in the art to incorporate the nanoparticle composition of Hallahan into the instant forms as it was routinely practice in the art at the time of the claimed invention. In support, Lanza teaches liquid therapeutic compositions comprising nanoparticles(col.2), Marx teaches additives such as Factor XIII (col.4, 6), and dry and liquid formulations (see throughout, col.6). Thus, as evidenced by the cited references, it would have been well within the purview of one of ordinary skill in the art to incorporate the nanoparticle compositions into the instant forms as a matter of routine experimentation.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ruth A. Davis whose telephone number is 571-272-0915. The examiner can normally be reached on M-F 7:00 -3:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Wityshyn can be reached on 571-272-0926. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number:

10/534,469

Art Unit: 1651

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ruth A. Davis/ Primary Examiner Art Unit 1651

January 16, 2008